

Please add the following claims:

13. A process for the production of a protein by a cell in culture, comprising:
(a) providing a eukaryotic cell that constitutively produces a protein, and
(b) culturing said eukaryotic cell on a medium comprising an alkanolic acid

component selected from the group consisting of:

- (i) alkanolic acids,
- (ii) salts of alkanolic acids, and
- (iii) a combination of alkanolic acids and salts of alkanolic acids.

said alkanolic acid component maintained in the medium at a concentration of less than about 0.1mM.

14. A process according to claim 13 comprising first culturing said eukaryotic cell on a cell culture medium that does not contain an alkanolic acid component, prior to culturing on a medium containing an alkanolic acid component.

15. A process according to claim 13, further comprising separating said protein from the culture medium.

16. A process according to claim 13 where said eukaryotic cell is cultured on said medium comprising an alkanolic acid component for at least ten days.

17. A process according to claim 13, further comprising subculturing the cell culture resulting from step (b), said subculture on medium comprising an alkanolic acid component selected from the group consisting of:

- (i) alkanolic acids,
- (ii) salts of alkanolic acids, and
- (iii) a combination of alkanolic acids and salts of alkanolic acids.

said alkanolic acid component maintained in the subculture medium at a concentration of less than about 0.1mM.

18. A process according to claim 13 wherein said alkanolic acid component is a straight chain C_{2-10} .

19. A process according to claim 13 wherein said alkanolic acid component is a straight chain C_{2-10} .

20. A process according to claim 13 wherein the alkanolic acid component is selected from the group consisting of butyric acid and metal salts of butyric acid.
21. A process according to claim 13 wherein the alkanolic acid component is sodium butyrate.
22. A process according to claim 13 wherein the concentration of said alkanolic acid component is less than about 0.1mM but greater than about 0.025mM.
23. A process according to claim 13, wherein said concentration of said alkanolic acid component is less than about 0.1mM but greater than about 0.05mM.
24. A process according to claim 13, wherein said concentration of said alkanolic acid component is about 0.075 mM.
25. A process according to claim 13 wherein said eukaryotic cells are selected from non-immunoglobulin secreting mouse myeloma B cells (NSO) and Chinese Hamster Ovary (CHO) cells.
26. A process according to claim 13 wherein said protein is selected from the group consisting of hormones, enzymes, enzyme inhibitors, lymphokines, and immunoglobulins.
27. A process according to claim 13 wherein said protein is an immunoglobulin.
28. A process for the production of a protein by a cell in culture, comprising:
 (a) providing a eukaryotic cell that constitutively produces a protein, and
 (b) culturing said eukaryotic cell on a medium comprising an alkanolic acid component selected from the group consisting of:
 (i) butyric acid,
 (ii) metal salts of butyric acid, and
 (iii) a combination of butyric acid and a metal salt of butyric acid,
said alkanolic acid component maintained in the medium at a concentration of less than about 0.1mM.
29. A process according to claim 28 comprising first culturing said eukaryotic cell on a cell culture medium that does not contain an alkanolic acid component, prior to culturing on a medium containing an alkanolic acid component.

30. A process according to claim 28, further comprising separating said protein from the culture medium.
31. A process according to claim 28 where said eukaryotic cell is cultured on said medium comprising an alkanolic acid component for at least ten days.
32. A process according to claim 28 wherein the alkanolic acid component is sodium butyrate.
33. A process according to claim 28 wherein the concentration of said alkanolic acid component is less than about 0.1mM but greater than about 0.025mM.
34. A process according to claim 28, wherein said concentration of said alkanolic acid component is less than about 0.1mM but greater than about 0.05mM.
35. A process according to claim 28, wherein said concentration of said alkanolic acid component is about 0.075 mM.
36. A process according to claim 28 wherein said eukaryotic cells are selected from non-immunoglobulin secreting mouse myeloma B cells (NSO) and Chinese Hamster Ovary (CHO) cells.
37. A process according to claim 28 wherein said protein is selected from the group consisting of hormones, enzymes, enzyme inhibitors, lymphokines, and immunoglobulins.
38. A process according to claim 28 wherein said protein is an immunoglobulin.